

February 27, 2015

• multiplication

$$\frac{7}{8} \cdot \frac{4}{5} = \frac{28}{40} = \frac{7}{10}$$

$$\frac{7}{2 \cdot 2 \cdot 2} \cdot \frac{2 \cdot 2}{5} = \frac{2 \cdot 2 \cdot 7}{2 \cdot 2 \cdot 2 \cdot 5} = \frac{7}{10}$$

• Division

$$\frac{7}{8} \div \frac{4}{5} = \frac{7}{8} \cdot \frac{5}{4} = \frac{35}{32}$$

K C F

$$\frac{11}{6} \div \frac{5}{13} = \frac{11}{6} \cdot \frac{13}{5} = \frac{143}{30}$$

K F Prime Prime

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• addition with Like Denominator

$$\frac{5}{11} + \frac{3}{11} = \frac{5+3}{11} = \frac{8}{11}$$

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• addition with Un-Like Denominators

$$\frac{1}{2} + \frac{1}{3}$$

$$\frac{1}{2} \cdot \frac{3}{3} = \frac{3}{6} \leftarrow \text{LCD}$$

$$\frac{1}{3} \cdot \frac{2}{2} = \frac{2}{6} \leftarrow \text{LCD}$$

using IPZ

$$\frac{3}{6} + \frac{2}{6} = \frac{3+2}{6} = \frac{5}{6}$$

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addition with Un-Like Denominators

$$\frac{a}{b} + \frac{c}{d} = \frac{a \cdot d + b \cdot c}{bd}$$

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$$\frac{3}{8} - \frac{11}{12}$$

$$\frac{a}{r} + \frac{c}{d} = \frac{ad+rc}{rd}$$

a=3  
b=8  
c=11  
d=12

$$\frac{3 \cdot 12 - 8 \cdot 11}{8 \cdot 12} = \frac{36 - 88}{96} = \frac{-52}{96} = \frac{-26}{48} = \frac{-13}{24}$$

② find LCD: 24

$$\frac{3}{8} - \frac{11}{12} = \frac{3 \cdot 3 - 2 \cdot 11}{24} = \frac{9 - 22}{24} = \frac{-13}{24}$$

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$$\frac{5}{7} + \frac{3}{8} = \frac{40 + 21}{56} = \frac{61}{56}$$

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Hint: Study this!!!

$$\frac{1}{2} + \left[ \frac{1}{2} \cdot \frac{2}{-1} \right] + 2 = \frac{1}{2} - \frac{1}{2}$$

$$\frac{1}{2} + 1 + \left[ \frac{2}{-1} \cdot \frac{1}{2} \right] = \frac{1}{2} - \frac{1}{2}$$

$$\frac{1}{2} + 1 + \left[ \frac{4}{-1} \cdot \frac{1}{2} \right] = \frac{1}{2} - \frac{1}{2}$$

$$\left[ \frac{1}{2} + 1 \right] + 4 = \frac{1}{2} - \frac{1}{2}$$

$$\left[ \frac{1}{2} + 1 \right] + \frac{4}{-1} = \frac{1}{2} - \frac{1}{2}$$

$$\frac{1+2}{2}$$

$$\frac{3}{2} + \frac{4}{-1} = \frac{1}{2} - \frac{1}{2}$$

$$\frac{3+8}{2} = \frac{1}{2} - \frac{1}{2}$$

$$\frac{11}{2} - \frac{1}{2} = \frac{11-1}{2} = \frac{10}{2}$$

$$= 5$$

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